Asthma

Definition: Respondents who have been told by a doctor, nurse, or health professional that they had asthma and that they still have asthma.

Prevalence of Asthma

- South Dakota 7.1%
- o Nationwide median 8.4%

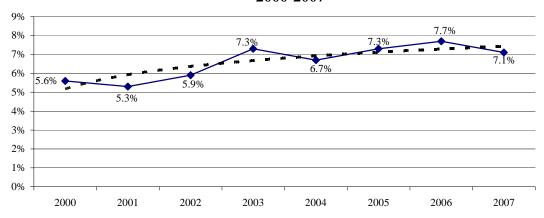
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for having asthma.

Trend Analysis

Overall, the percent of respondents who stated they were told they have asthma has been increasing since this question was first asked in 2000. The percent of respondents who stated they were told they have asthma did decrease slightly from a high of 7.7 percent in 2006 to 7.1 percent in 2007.

Figure 58
Percent of Respondents Who Were Told They Have Asthma, 2000-2007



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2007

Demographics

Income

Gender	There is no significant gender difference observed from the available data.
Age	The prevalence of asthma does not show a distinct pattern as age increases.
Race	American Indian females demonstrate a significantly higher prevalence of asthma than white females.
Region	Females in the American Indian counties region exhibit a very high prevalence of asthma, while females in the southeast region show a very low prevalence. Males do not exhibit this same regional difference.
Household	The prevalence of asthma is higher for those in lower household income groups.

Education The prevalence of asthma generally decreases as education levels increase. This association is more evident in males.

Employment Status

Those who are unable to work demonstrate a very high prevalence of asthma, while those who are employed for wages, self-employed, or a homemaker show a very low prevalence.

Marital Status

Those who are widowed or have never been married exhibit a very high prevalence of asthma, while those who are married show a very low prevalence. These differences are much more evident with females.

Table 67 Respondents Who Were Told They Have Asthma, 2007										
100	Total			iu incy	Male			Female		
	# Resp.		# Resp.	%	95% CI	# Resp.	%	95% CI		
Total	6,829	7.1	(6.2-8.10)	2,798	6.1	(4.7-7.8)	4,031	8.0	(6.9-9.3)	
Age	0,02>	,,,	(0.2 0.10)	2,770	0.1	(117 710)	1,001	0.0	(0.5 5.6)	
18-24	238	11.5	(7.3-17.7)	122	11.5	(5.6-22.2)	116	11.5	(6.5-19.4)	
25-34	760	7.4	(5.5-9.7)	304	4.7	(2.5-8.6)	456	10.1	(7.5-13.6)	
35-44	926	4.9	(3.5-6.9)	420	4.3	(2.5-7.6)	506	5.5	(3.7-8.2)	
45-54	1,406	5.2	(4.0-6.7)	592	3.3	(2.0-5.5)	814	7.0	(5.2-9.4)	
55-64	1,337	5.8	(4.6-7.4)	568	4.9	(3.3-7.3)	769	6.8	(5.1-9.1)	
65-74	1,051	7.5	(5.9-9.5)	419	8.3	(5.8-11.7)	632	6.9	(5.0-9.3)	
75+	1,044	8.3	(6.5-10.5)	361	9.2	(6.2-13.5)	683	7.7	(5.7-10.4)	
Race	1,0	0.0	(0.0 10.0)	201	7.2	(0.2 15.6)	000	7.7	(817 1011)	
White	5,992	6.7	(5.8-7.8)	2,456	5.7	(4.4-7.4)	3,536	7.7	(6.5-9.1)	
American Indian	586	9.4	(6.6-13.4)	231	5.4	(2.5-11.3)	355	13.6	(9.2-19.7)	
Region	300	7.1	(0.0 15.1)	231	3.1	(2.3 11.3)	333	15.0	().2 1).//	
Southeast	1,534	6.5	(5.0-8.5)	639	6.7	(4.2-10.5)	895	6.3	(4.9-8.1)	
Northeast	1,486	5.5	(4.1-7.3)	629	4.1	(2.4-6.8)	857	7.0	(4.9-9.8)	
Central	1,426	7.5	(5.7-9.8)	577	6.9	(4.5-10.4)	849	8.1	(5.7-11.3)	
West	1,521	8.9	(6.9-11.3)	597	6.6	(4.4-10.0)	924	10.6	(7.8-14.4)	
American Indian Counties	862	9.9	(7.3-13.3)	356	6.5	(3.7-11.2)	506	13.4	(9.4-18.7)	
Household Income	002	7.7	(7.5 15.5)	330	0.5	(3.7 11.2)	300	13.4	(5.4 10.7)	
Less than \$10,000	307	13.0	(8.5-19.3)	102	14.3	(7.0-26.8)	205	12.2	(7.3-19.7)	
\$10,000-\$14,999	368	17.1	(10.9-25.8)	122	10.7	(5.1-21.2)	246	21.0	(12.3-33.4)	
\$15,000-\$14,777	498	8.2	(5.6-11.8)	178	6.0	(3.0-11.5)	320	9.7	(6.1-15.1)	
\$20,000-\$24,999	658	7.9	(5.6-11.1)	229	6.6	(3.6-11.9)	429	8.8	(5.7-13.3)	
\$25,000-\$34,999	878	9.2	(6.2-13.3)	385	10.5	(5.9-18.1)	493	7.6	(5.3-11.0)	
\$35,000-\$49,999	1,156	5.1	(3.7-7.0)	526	3.9	(2.4-6.5)	630	6.3	(4.2-9.4)	
\$50,000-\$74,999	1,061	4.3	(3.1-6.0)	484	2.7	(1.6-4.5)	577	6.0	(3.9-9.2)	
\$75,000+	1,033	4.3	(3.1-6.1)	526	3.2	(1.8-5.8)	507	5.8	(3.8-8.8)	
Education	1,033	1.0	(3.1 0.1)	320	3.2	(1.0 3.0)	307	3.0	(3.0 0.0)	
8th Grade or Less	261	9.2	(5.7-14.5)	139	9.7	(5.3-17.4)	122	8.1	(3.8-16.4)	
Some High School	376	11.0	(7.3-16.4)	146	7.8	(3.1-18.1)	230	14.2	(9.4-21.0)	
High School or G.E.D.	2,257	7.9	(6.0-10.4)	990	8.6	(5.6-13.0)	1,267	7.1	(5.2-9.7)	
Some Post-High School	1,920	7.6	(6.1-9.4)	682	5.5	(3.8-7.9)	1,238	9.2	(7.0-11.9)	
College Graduate	2,003	4.8	(3.8-6.1)	838	3.1	(1.9-4.9)	1,165	6.6	(5.1-8.6)	
Employment Status	2,003	1.0	(3.0 0.1)	030	3.1	(1.5 1.5)	1,105	0.0	(3.1 0.0)	
Employed for Wages	3,186	5.9	(4.7-7.5)	1,281	5.3	(3.3-8.2)	1,905	6.6	(5.2-8.3)	
Self-employed	963	4.1	(2.8-6.0)	636	3.5	(2.1-5.6)	327	5.6		
Unemployed	162	8.8	(4.4-17.1)	*	*	(2.1-3.0)	*	3.0	(3.0-10.4)	
Homemaker	434	7.9	(4.7-12.9)	*	*	*	*	*	*	
Retired	1,648	9.0	(7.5-10.8)	625	9.5	(7.1-12.7)	1,023	8.6	(6.8-10.7)	
Unable to Work	326	19.6	(14.7-25.8)	134	17.2	(10.1-27.7)	192	21.9	(15.5-29.9)	
Marital Status	320	17.0	(17.7-23.0)	137	11.2	(10.1-27.7)	1,72	21.7	(13.3-27.7)	
Married/Unmarried Couple	4,105	5.7	(4.9-6.6)	1,812	5.0	(3 0 6 3)	2,293	6.4	(5.3-7.7)	
Divorced/Separated	932	7.4	(5.8-9.4)	397	5.7	(3.9-6.3) (3.8-8.7)	535	8.7	(6.4-11.7)	
Widowed Widowed	1,043	9.6	(5.8-9.4)	175	6.3	(3.4-11.5)		10.2		
							868		(8.2-12.8)	
Never Married	731	11.4	(7.7-16.5)	409	9.8	(5.3-17.5)	322	13.9	(8.7-21.6)	

Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2007

National Statistics

The national median for respondents who have asthma was 8.4 percent. South Dakota had 7.1 percent of respondents who have asthma. Florida had the lowest percent of respondents who have asthma with 6.2 percent, while Maine had the highest percent of respondents who have asthma with 10.3 percent.

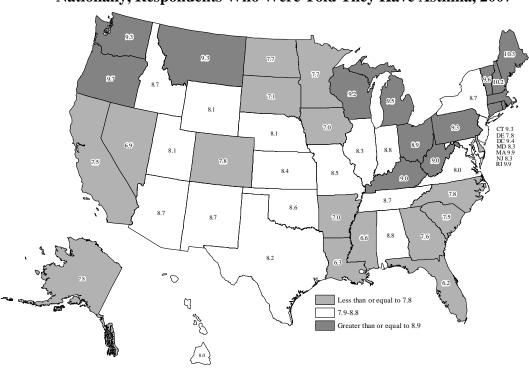


Figure 59
Nationally, Respondents Who Were Told They Have Asthma, 2007

 $Source: The\ Behavioral\ Risk\ Factor\ Surveillance\ System,\ South\ Dakota\ Department\ of\ Health,\ 2007$

Further Analysis

Following are data illustrating the percent of those who have asthma for various health behaviors and conditions. For example, 15.6 percent of respondents who stated they have fair or poor health have asthma, while 5.8 percent of respondents who stated they have excellent, very good, or good health status have asthma.

Table 68 Asthma Prevalence for Selected Health Behaviors and Conditions, 2007					
Health Behavior or Condition	# Respondents	% with Asthma	95% CI		
Obese (BMI = $30.0+$)	1,825	9.3	7.6-11.4		
Overweight (BMI = 25.0-29.9)	2,546	5.7	4.5-7.3		
Recommended Weight (BMI = 18.5-24.9)	2,046	6.9	5.1-9.2		
No Leisure Time Physical Activity	1,851	9.1	6.8-12.1		
Leisure Time Physical Activity	4,973	6.5	5.5-7.5		
No Moderate Physical Activity	3,526	7.3	6.1-8.7		
Moderate Physical Activity	2,823	6.3	5.2-7.7		
No Vigorous Physical Activity	5,181	7.2	6.2-8.3		
Vigorous Physical Activity	1,344	6.0	4.5-7.9		
Less Than Five Servings of Fruits and Vegetables	5,344	7.1	6.0-8.3		
At Least Five Servings of Fruits and Vegetables	1,358	7.4	5.7-9.4		

Asthma Prevalence for Selected Health		· · · · · · · · · · · · · · · · · · ·	
Health Behavior or Condition	# Respondents	% with Asthma	95% CI
Current Smoker	1,286	7.8	6.0-10.0
Former Smoker	1,973	8.4	7.0-10.0
Never Smoked	3,557	6.2	5.0-7.8
Smokeless Tobacco Use	305	9.2	5.3-15.5
No Smokeless Tobacco Use	6,238	6.8	6.0-7.7
Diabetes	654	8.5	6.3-11.4
No Diabetes	6,174	7.0	6.0-8.0
Hypertension	2,328	9.4	7.6-11.4
No Hypertension	4,495	6.3	5.2-7.5
High Blood Cholesterol	2,220	6.7	5.6-8.2
No High Blood Cholesterol	3,411	6.1	5.2-7.2
No Health Insurance (18-64)	405	9.8	6.2-15.4
Health Insurance (18-64)	4,013	6.2	5.2-7.4
Employer Based Health Insurance Coverage (18-64)	2,578	5.4	4.3-6.8
Private Health Insurance Plan (18-64)	556	4.7	2.4-8.7
Medicare (18-64)	155	11.2	7.0-17.5
Medicaid or Medical Assistance (18-64)	156	17.9	11.3-27.3
The Military, CHAMPUS, TriCare, or the VA (18-64)	227	7.7	3.7-15.3
The Indian Health Service (18-64)	263	9.3	5.6-15.1
No Flu Shot (65+)	501	6.5	4.4-9.6
Flu Shot (65+)	1,587	8.4	6.9-10.1
No Pneumonia Shot (65+)	722	4.4	2.8-6.7
Pneumonia Shot (65+)	1,285	10.0	8.3-12.1
Doesn't Use Sun Block	4,132	6.4	5.4-7.6
Uses Sun Block	1,604	6.9	5.3-8.9
Doesn't Know Cervical Cancer - HPV Connection (Females)	795	6.7	5.1-8.9
Knows Cervical Cancer - HPV Connection (Females)	2,999	8.4	7.1-10.0
Drank Alcohol in Past 30 Days	3,501	6.3	5.1-7.8
No Alcohol in Past 30 Days	3,285	8.1	6.9-9.6
Binge Drinker	875	5.3	3.7-7.6
Not a Binge Drinker	5,812	7.3	6.4-8.3
Heavy Drinker	220	3.0	1.4-6.5
Not a Heavy Drinker	6,396	7.0	6.2-8.0
Previously Had a Heart Attack	459	12.3	9.2-16.3
Never Had a Heart Attack	6,345	6.6	5.8-7.7
Have Angina or Coronary Heart Disease	398		
•		14.4 6.7	10.9-18.8
Do Not Have Angina or Coronary Heart Disease	6,361		5.8-7.8
Previously Had a Stroke	262	12.0	8.3-17.0
Never Had a Stroke	6,556	6.9	6.0-8.0
Arthritis	2,412	10.3	8.8-12.0
No Arthritis	4,314	5.9	4.9-7.3
Arthritis - Activities Limited	1,155	13.6	11.3-16.3
No Arthritis - Activities Limited	5,551	6.2	5.2-7.3
Fair or Poor Health Status	1,137	15.6	12.9-18.6
Excellent, Very Good, or Good Health Status	5,673	5.8	4.9-6.9
Physical Health Not Good for 30 Days of the Past 30	502	18.0	13.8-23.2
Physical Health Not Good for 0-29 Days of the Past 30	6,180	6.3	5.4-7.4
Mental Health Not Good for 20-30 Days of the Past 30	374	12.9	9.2-17.9
Mental Health Not Good for 0-19 Days of the Past 30	6,337	6.7	5.8-7.8
Usual Activities Unattainable for 10-30 Days of the Past 30	489	16.3	12.5-21.1
Usual Activities Unattainable for 0-9 Days of the Past 30	6,279	6.4	5.5-7.5

Table 68 (continued) Asthma Prevalence for Selected Health Behaviors and Conditions, 2007					
Health Behavior or Condition	# Respondents	% with Asthma	95% CI		
Dissatisfied / Very Dissatisfied with Life	268	12.8	8.2-19.2		
Satisfied / Very Satisfied with Life	6,297	6.7	5.8-7.6		
Physical, Mental, or Emotional Disability	1,546	14.2	12.0-16.8		
No Physical, Mental, or Emotional Disability	5,212	5.5	4.6-6.7		
Disability with Special Equipment Needed	611	15.8	12.7-19.5		
No Disability with Special Equipment Needed	6,152	6.5	5.6-7.6		
Two or More Hours of TV Watched Per Day	4,860	7.4	6.4-8.5		
Less Than Two Hours of TV Watched Per Day	1,579	5.3	4.0-7.1		
Never Been Tested for HIV (18-64)	3,431	5.7	4.6-7.1		
Been Tested for HIV (18-64)	994	9.1	7.1-11.5		
Diarrhea in Past 30 Days	960	11.5	8.8-15.0		
No Diarrhea in Past 30 Days	5,585	6.1	5.3-7.1		
Military Veteran	1,000	6.5	4.9-8.5		
Not a Military Veteran	5,826	7.1	6.1-8.3		

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2007